

Shp wkd July 6

# PRELIMINARY ISSUE

Work Order ID 71397

Thursday, June 30, 2011 3:16:41 PM

Page 1

Item ID: DSI 9562-011

Accept



Setup Start



Revision ID: PRELIM

Stop



Item Name: Compatibility Installation

Start Date: 6/30/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 7/8/2011 Req'd Qty: 1.00



Customer:



Reference:

Approvals:

Process Plan:

*P*

Date:

*11-06-30*

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

DSI 9562

PAI

*A*

*1107.02*

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile per PPP DSI9562 CHG001

*5 u10x102*

110

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

*11/17/11*

120

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

*5 u10x102*

*40*

*to Rev A*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Work Order ID 71397

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Page 2

Item ID: DSI 9562-011

Accept



Setup Start



Revision ID: PRELIM

Stop



Item Name: Compatibility Installation

Start Date: 6/30/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 7/8/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP DSI 9562 Location: _____ <input type="checkbox"/> PPP Rev: _____								
140 	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

*Handwritten signature and date 6/7/11*

*Handwritten signature and date 11/07/08*

POSITIVE RECALL

EFFECTIVE

AUTH

RELEASED

DATE

*Handwritten date 11/07/08*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Page 1

Thursday, June 30, 2011 3:16:48 PM

Work Order ID: 71397

Parent Item: DSI 9562-011

Parent Item Name: Compatibility Installation

Start Date: 6/30/2011

Required Date: 7/8/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP revA 11.06.30 new issue EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4420-041 Top Support Assembly		Manufactured	No			110	Each	0.0000	1				
D4420-043 Top Leg Support Assembly		Manufactured	No			110	Each	0.0000	1				
D4422-1 Shim		Manufactured	No			110	Each	0.0000	7				
D4422-3 Shim		Manufactured	No			110	Each	0.0000	1				
D4423-1 Splash Guard Extension		Manufactured	No			110	Each	0.0000	1				
AKS7-1032-130 Insert	ALS4-1032-130	Purchased	No			110	Each	0.0000	10				
AN4-12A Bolt		Purchased	No			110	Each	160.0000	2				

## Location

ST357

115422

117508

## Loc Qty

160

60

100

## Loc Code

2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Thursday, June 30, 2011 3:16:48 PM

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Work Order ID: 71397

Parent Item: DSI 9562-011

Parent Item Name: Compatibility Installation

Start Date: 6/30/2011

Required Date: 7/8/2011

Start Qty: 1.00

Required Qty: 1.00

AN525-10R7

Purchased

No

110

Each

252.0000

10

10



Screw

Location

Loc Qty

Loc Code

ST325

252

115016

1

115371

151

116737

100

MS20470AD4-5

Purchased

No

110

Each

634.0000

4

4



Rivet, Universal Head

Location

Loc Qty

Loc Code

ST319

634

116893

634

MS21042-08

Purchased

No

110

Each

85.0000

2

2



USE MS21042L08

Location

Loc Qty

Loc Code

ST299

85

103668

85

MS21042-4

Purchased

No

110

Each

252.0000

2

2



USE MS21042L4

Location

Loc Qty

Loc Code

ST299

252

100743

9

5389

78

5461

3

6844

19

7690

24

8182

115

9229

4

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Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

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Page 3

Work Order ID: 71397

Parent Item: DSI 9562-011

Parent Item Name: Compatibility Installation

Start Date: 6/30/2011

Required Date: 7/8/2011

Start Qty: 1.00

Required Qty: 1.00

MS21059L3 Purchased No

110 Each

26.0000

10

10



Nut Plate

-6-

Location

Loc Qty

Loc Code

ST301

20

117887

20

ST302

6

116706

6

MS27039-08-05 Purchased No

110 Each

100.0000

2



SCREW

Location

Loc Qty

Loc Code

ST290

100

117316

100

NAS1149DN832J Purchased No

110 Each

2,022.000

4

4



WASHER

Location

Loc Qty

Loc Code

ST297

2022

117316

1022

117887

1000

NAS1149F0463P Purchased No

110 Each

137.0000

2

2



Washer

Location

Loc Qty

Loc Code

ST275

137

116702

137

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Page 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D130-780 REV. B  
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-130-780 REV. 1

REF. TCCA STC: SH93-88

REF. FAA STC: SR00098NY

REF. EASA STC: EASA.IM.R.S.01292

## 1.0 PURPOSE

This service instruction is intended for customers wishing to install the D130-780-041 Spacepod and D130-794-021 Auxiliary Fuel Tank simultaneously.

## 2.0 INSTALLATION POCEURE

Note: The following documents are required and referenced throughout this service instruction as follows:

Manual	Description	Applicable STC
IIN-D130-780	Installation Instructions	SH93-88 (TCCA)
ICA-D130-780	Instruction for Continuous Airworthiness	SR00098NY (FAA) EASA.IM.R.S.01292 (EASA)
IIN-D350-794	Installation Instructions	SH05-4 (TCCA)
ICA-D350-794	Instruction for Continuous Airworthiness	10031514 (EASA)

## 2.1 PREPARATION

As applicable, perform the following steps:

- 2.1.1 If not installed, install the Spacepod in accordance with IIN-D130-780.
- 2.1.2 If installed or once installation is complete, remove the Spacepod with the exception of the D3815-041 forward and aft web in accordance with ICA-D130-780. Remove Spacepod Door per ICA-D130-780.
- 2.1.3 Install the D130-794-021 Auxiliary Fuel Tank in accordance with IIN-D350-794 and then remove the D4055-041 Fuel Tank. The installation of D4006-041 will not be necessary. Refer to Step 2.3 of this service instruction.

## 2.2 MODIFYING THE SPACEPOD FLOOR:

Refer to Figure 1 of this service instruction.

- 2.2.1 Temporarily install the Spacepod without the door over the D3815-041 webs using 8 countersunk screws for alignment purposes only (nuts and washers are not required at this point).
- 2.2.2 Raise the Spacepod Floor over the D4004-043 Side Restraint Angle Bracket and D4005-1 Aft Floor Gutter Angle of the auxiliary fuel tank.
- 2.2.3 Transfer mark the location of these items onto the Spacepod Floor.
- 2.2.4 Remove the Spacepod from the aircraft.

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
APPROVED	
BY:	<i>[Signature]</i>
D. SHEPHERD (DE # 02)	
DATE:	11.06.28
CERT. NO.:	SH93-88
ISSUE NO.:	6

A	NEW ISSUE	MB	11.06.07
REV.		BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		DSI 9562	SHEET 1 OF 5
APPROVED		TITLE	SCALE
DE APPR.		AUX TANK/SPACEPOD COMPATIBILITY NTS	
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- 2.2.5 Trim Spacepod floor to provide 0.50" clearance around the D4005-1 Aft Floor Bracket, D4004-043 Side Bracket, and D4055-041 Fuel Tank.
- 2.2.6 Remove the Spacepod D3815-041 forward and aft webs. Trim D3815-041 Aft Web per Figure 3 Detail A of this service instruction.
- 2.2.7 Install the D4055-041 Fuel Tank in the cargo compartment.  
**NOTE:** If the aircraft is equipped with ECL Aux Airframe Fuel Filter Drain Hose, it is acceptable to procure from Eurocopter and install P/N ESK-1324 elbow fitting to eliminate interference of drain hose with D4055-041 Fuel Tank.
- 2.2.8 Re-install the Spacepod D3815-041 forward and aft webs.
- 2.2.9 Re-install Spacepod. Locate seven Ø0.191" holes approx. as shown in Figure 1 onto Spacepod floor and transfer mark onto top surface of the baggage compartment floor. Ensure that the holes marked in the compartment floor are clear of any vertical members below the compartment floor. If necessary the hole may be moved within 2" of the marked hole as required by maintaining a minimum edge distance of 0.38". Remove the Spacepod.  
**NOTE:** A minimum of ten fasteners is required to secure the Spacepod floor to the aircraft compartment. Adjust quantity of seven Ø0.191" holes accordingly.
- 2.2.10 Remove all burrs from Spacepod floor and touch up finish in accordance with Chapter 5 of ICA-D130-780.
- 2.2.11 Install AKS7-1032-130 inserts (or MS21059L3 anchor nuts) in accordance with steps 3.2.15 and 3.2.16 of IIN-D130-780.
- 2.2.12 Install Spacepod with hardware and torque to specific values in accordance with IIN-D130-780.
- 2.2.13 Apply a bead of Proseal 890 all around edges of Spacepod Floor.
- 2.2.14 Re-Installed Spacepod Door in accordance with IIN-D130-780.

### 2.3 INSTALLATION OF D4420-041/D4420-043 TOP SUPPORT/LEG ASSEMBLIES

To substitute installation of D4006-041 Top Support Assy referred to in IIN-D350-794. Refer to Figure 3 of this service instruction.

- 2.3.1 With tank in position and strapped in with strap P/N D4024-041 (ref. IIN-D350-794), locate D4420-041, D4420-043, and D4422-1/-3 Shims so the centerline of the leg on D4420-041 and the centerline of D4420-043 coincide with two Ø0.250" hole in existing rib assembly.  
**NOTE:** It is acceptable to enlarge existing Ø0.213" hole in D3815-041 Web Assy and D3815-5 Packers to Ø0.250" to locate/fasten the D4420-043 Top Support Leg Assy and substitute the AN3 fasteners in that one location with required AN4 fasteners. Trim D4420-043 Top Support Leg Assy, and D4422-1/-3 Shims as required to eliminate possible interference with existing ribs and stringers.
- 2.3.2 Transfer mark location of D4420-043 onto D4420-041.
- 2.3.3 Remove and using existing hole in D4420-043, transfer drill Ø0.128" hole to D4420-043 and fasten using MS20470AD4 Rivets.
- 2.3.4 Install Top Support/Leg Support Assembly, Spacer, and Inboard and Outboard Shims with hardware provided with DSI-9562-011 Kit. Torque to 50-70 in-lbs.

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ISSUE NO.:	6

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## 2.4 INSTALLATION OF D4423-1 SPLASH GUARD EXTENSION

Refer to Figure 2 of this service instruction.

- 2.4.1 Remove the D4008-7 Washers by unfastening the nuts from the screws. Retain all.
- 2.4.2 Fasten the D4008-7 Washers as shown using the hardware removed at the previous step.
- 2.4.3 Locate the Splash Guard Extension and fasten in place as shown.

## 3.0 WEIGHT AND BALANCE

There is a negligible weight change associated with the installation of DSI-9562-011 Kit and this modification. However, the weight and balance information of both D130-794-021 and D130-780-041 is cumulative and applicable.

## 4.0 MAINTENANCE AND CONTINUED AIRWORTHINESS

Refer to ICA-D350-794 for maintenance of the tank and ICA-D130-780 for maintenance of the Spacepod. Note that the Spacepod will need to be removed in order to remove the tank.

## 5.0 PARTS LIST

Qty -011	Part Number	Description
X	DSI-9562-011	COMPATIBILITY KIT
1	D4420-041	TOP SUPPORT ASSY
1	D4420-043	TOP SUPPORT LEG
7	D4422-1	SHIM
1	D4422-3	SHIM
1	D4423-1	SPLASH GUARD EXTENSION
10	AKS7-1032-130	INSERT
2	AN4-12A	BOLT
10	AN525-10R7	SCREWS
4	MS20470AD4-5	RIVET
2	MS21042-08	NUT (OR MS21042L08)
2	MS21042-4	NUT (OR MS21042L4)
10	MS21059L3	NUTPLATE
2	MS35206S242	SCREW (OR MS27039-08-05)
4	NAS1149DN832J	WASHER
2	NAS1149F0463P	WASHER






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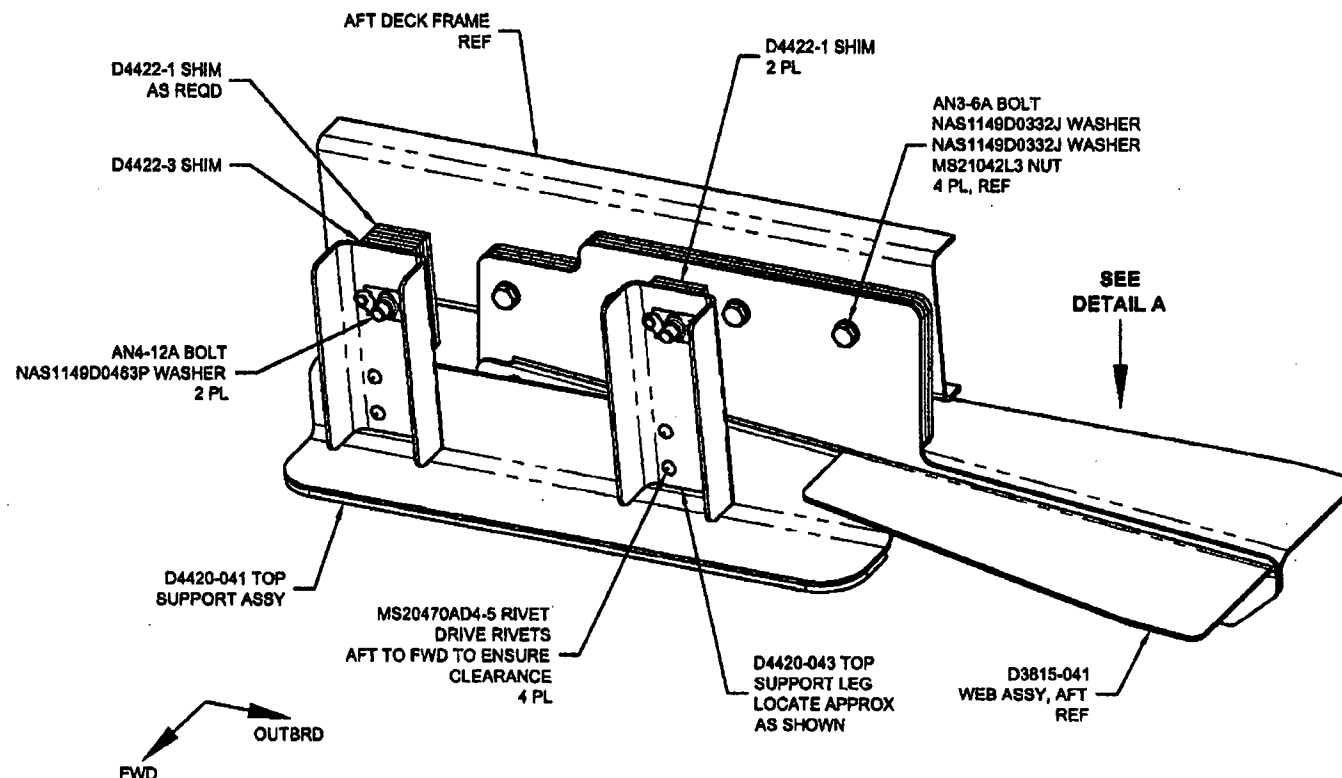
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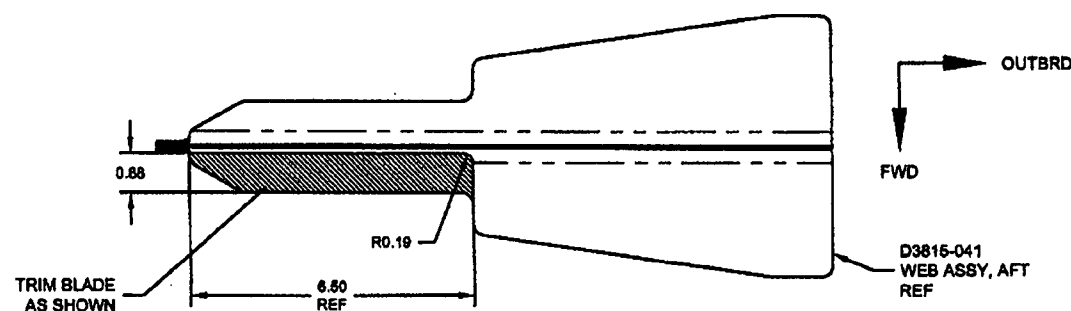
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BY: <i>[Signature]</i>	APPROVED
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ISSUE NO.: 6	



**FIGURE 3: INSTALLATION OF TOP SUPPORT ASSY**  
(SHOWN WITH SPACEPOD, TANK, AIRCRAFT SKIN AND DECK REMOVED FOR CLARITY)



**VIEW A: TRIMMING FWD BLADE OF D3815-041**

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